

**Q1:** Find the value of n if

$$5000 - 25n = 991 + 993 + 995 + 997 + 999$$

- A) -1                      B) 0                      C) 1                      D) 25

**Q2:** Evaluate  $1 - 3 + 5 - 7 + 9 - 11 + \dots + 49 = ?$

- A) -25                      B) -24                      C) 24                      D) 25

**Q3:** Evaluate

$$(-3) + (-3)(-3) + (-3)(-3)(-3) + (-3)(-3)(-3)(-3) = ?$$

- A) -120                      B) -30                      C) 60                      D) 90

**Q4:** Evaluate  $\frac{(-15) \div 5 - 2}{-11 - 4 \times (-3)} = ?$

- A) -5                      B) 5                      C) -1                      D) 1

**Q5:** If  $241 \times 113 = 27233$  then what is  $241 \times 339 = ?$

- A) 8169                      B) 27233  
C) 54466                      D) 81699

**Q6:** Evaluate the following.

$$2\frac{1}{2} \times (4\frac{2}{3}) - 2\frac{1}{3} + 4\frac{2}{3} - 15 = ?$$

- A) -29                      B) 29                      C) 1                      D) -1

**Q7:**  $\left\{ \left[ 30 \div \left( 1 + 3\frac{2}{7} \right) \times 2\frac{1}{7} \right] \times \left( 1\frac{2}{3} - 1\frac{1}{5} \right) \right\} \div 7 = ?$

- A) 1                      B) 5                      C) 7                      D) 105

**Q8:** What is the value of the following?

$$\sqrt{81} - \sqrt{64} + \sqrt{49} - \sqrt{36} + \sqrt{25} - \sqrt{16} + \sqrt{9} - \sqrt{4} + \sqrt{1} = ?$$

- A) 2                      B) 3                      C) 4                      D) 5

**Q9:** If  $x = 13.5$  then  $2x + 3x + 4x + 5x + 6x = ?$

- A) 135                      B) 256.5                      C) 283.5                      D) 270

**Q10:** Solve the following equation for x :

$$0.4(2x - 3) - 0.3(5 - 4x) = 6.3$$

- A) 9/2                      B) 5/2                      C) 5                      D) 4

**Q11:** If  $\frac{1}{5} \left( 3x + \frac{15}{4} \right) - \frac{1}{4} \left( \frac{4x}{5} - 3 \right) = \frac{7}{2}$  then the value of x is \_\_\_\_.

- A) -5                      B) -12.5                      C) 12.5                      D) 5

**Q12:** Half of 1% of 60 is equal to one less than which number?

- A) 1.3                      B) -0.7                      C) 0.6                      D) 0.7

**Q13:** If  $a(c - d) - b(c - d) = 5$  and  $c - d = 3$  then  $a - b + c - d = ?$

- A) -20                      B) 17                      C) 20                      D) 48

**Q14:** Which one of the following cannot be the sum of three consecutive odd integers?

- A) 39                      B) 51                      C) 78                      D) 81



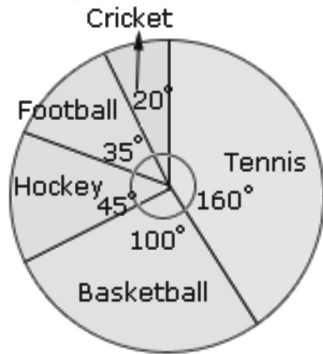
Q25: In the following table, if each number which is in the middle is average of previous and next number then  $x+y+z=?$

7	x	15	19	y	z	53
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- A) 38      B) 63      C) 72      D) 91

Q26: The pie chart represents the amount spent on different games by a school administration in a year. If the money spent on football is \$175, then what is the total amount spent on games?

Amounts spent on different games



- A) \$1800      B) \$1050  
C) \$900      D) \$500

Q27: Ahmad mixes 1 litre of 1% butterfat milk, 2 litres of 2% butterfat milk, 4 litres of 4% butterfat milk and 7 litres of 7% butterfat milk. What percentage of the resulting fourteen litres of milk is butterfat?

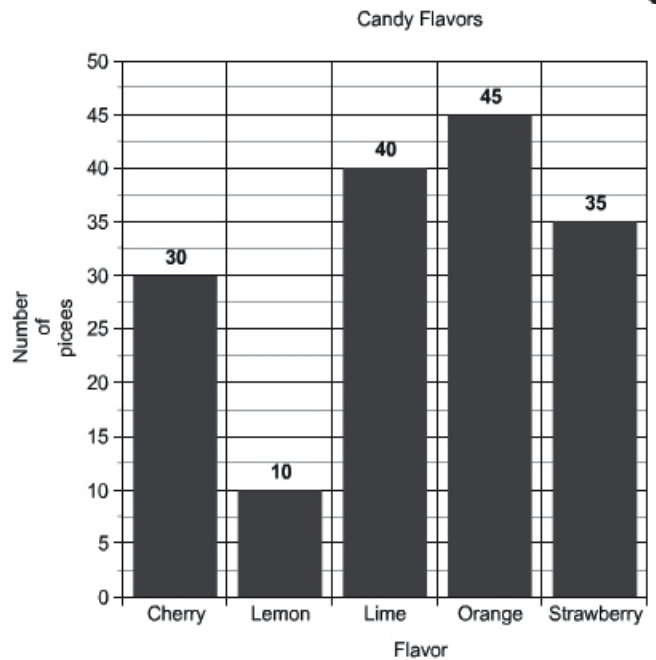
- A) 14%      B) 10%      C) 7%      D) 5%

Q28: If the fraction  $\frac{55}{13}$  can be expressed as

$4 + \frac{1}{x + \frac{1}{y}}$  then what is  $x+y$ ?

- A) 3      B) 4      C) 7      D) 13

Q29: In the following bar charts, numbers of candy flavors are given. What is the percentage of lime flavors to whole candies?



- A) 10%      B) 15%      C) 25%      D) 30%

Q30: A man loses  $\frac{1}{4}$ th of his money, then wins Rs.15, loses  $\frac{1}{4}$ th of what he has and wins Rs.22 and finds that he has exactly what he had at the beginning. The amount which he had originally was\_\_\_\_\_.

- A) Rs.19      B) Rs.38      C) Rs.76      D) Rs.133

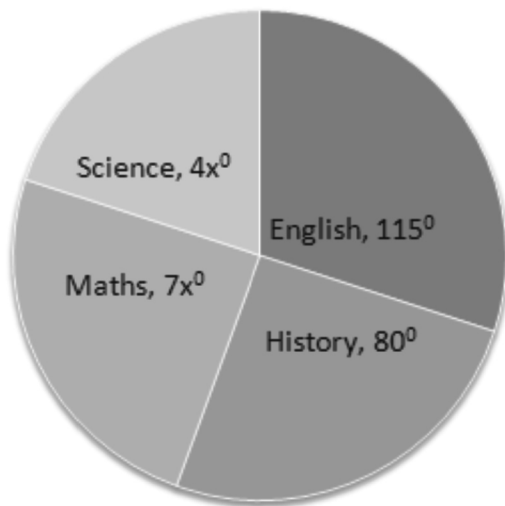
Q31: In a jar of red, green, and blue marbles, all but 15 are red marbles, all but 21 are green, and all but 14 are blue. How many marbles are there in the jar?

- A) 25      B) 29      C) 35      D) 50

**Q32:** Hassan helped his neighbor  $3\frac{1}{4}$  hours on Monday, 55 minutes on Tuesday, from 8:10 to 10:45 on Wednesday morning, and a half-hour on Friday. If he is paid \$4 per hour then how much did he earn for the week?

- A) \$28      B) \$29      C) \$56      D) \$58

**Q33:** The following pie chart shows that each student in a group of 1080 was asked about their favourite subjects from Science, Maths, History and English. How many students favourite subjects is Maths?



- A) 180      B) 240      C) 315      D) 345

**Q34:** Everyday, Ali reads the book whose number of the pages is half of the pages of the book previous day. If he read total 105 pages of the book in four days. How many pages did he read on 3<sup>rd</sup> day?

- A) 7      B) 14      C) 15      D) 28

**Q35:** A train traveling from town A to town B arrives 9 minutes late if it travels at 45km/hr. If it travels at 36 km/hr it arrives 39 minutes late. What is the distance between A and B?

- A) 30km      B) 45km      C) 90km      D) 96km

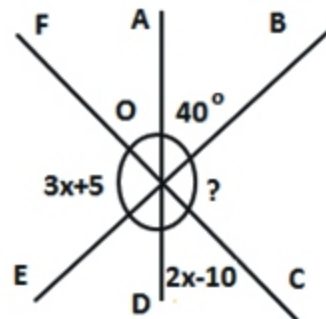
**Q36:** In an animal farm,  $\frac{3}{10}$  of the animals are sheep,  $\frac{1}{8}$  of the animals are cows and remaining animals are chickens. If the total number of animals is between 150 and 200, then how many chickens are there?

- A) 68      B) 80      C) 92      D) 138

**Q37:** One fourth of the birds in a cage are blue. 45 of the 130 females are blue, while 20% of the males are blue. How many birds are there in the cage?

- A) 120      B) 130      C) 250      D) 380

**Q38:** If  $\angle AOB = 40^\circ$ ,  $\angle COD = 2x - 10^\circ$  and  $\angle FOE = 3x + 5^\circ$  then what is the value of  $\angle BOC$  ?

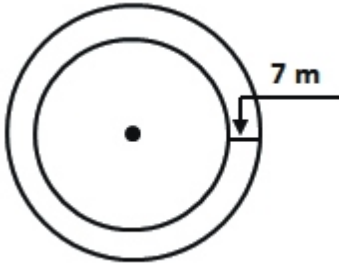


- A)  $29^\circ$       B)  $44^\circ$       C)  $65^\circ$       D)  $92^\circ$

**Q39:** If the areas of three different faces of a cuboid are  $20\text{cm}^2$ ,  $36\text{cm}^2$  and  $45\text{cm}^2$  then what is the volume of the cuboid in  $\text{cm}^3$ ?

- A)  $45\text{cm}^3$       B)  $90\text{cm}^3$       C)  $180\text{cm}^3$       D)  $270\text{cm}^3$

Q40: A 7 metre wide road surrounds a circular park. If the circumference of the park is 44 m, then the area of the road is \_\_\_\_\_. ( $\pi = \frac{22}{7}$ )

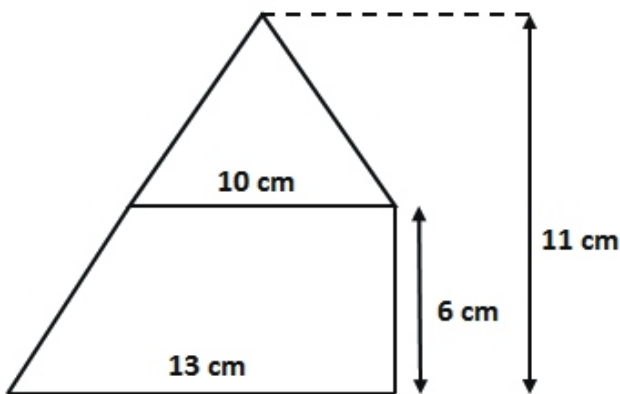


- A) 231cm<sup>2</sup>                      B) 462cm<sup>2</sup>  
 C) 616cm<sup>2</sup>                      D) 1232cm<sup>2</sup>

Q41: In a factory, there are 2880 workers. If  $\frac{4}{5}$  of the male workers are married to  $\frac{4}{7}$  of the female workers then how many male workers are there in this factory?

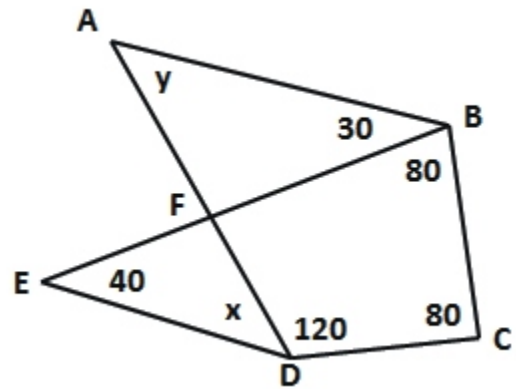
- A) 900                              B) 1200  
 C) 1500                             D) 1800

Q42: The figure shows a trapezium and a triangle. The area of the figure in cm<sup>2</sup> is \_\_\_\_



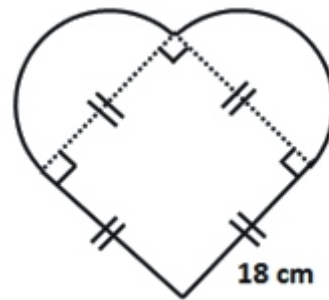
- A) 69 cm<sup>2</sup>    B) 94 cm<sup>2</sup>    C) 110 cm<sup>2</sup>    D) 143 cm<sup>2</sup>

Q43: What is the value of x+y in the figure shown?



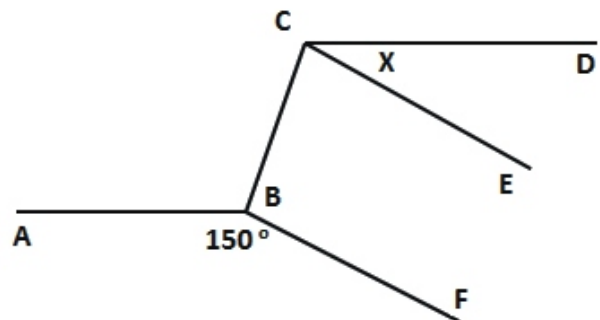
- A) 80°                      B) 90°                      C) 180°                      D) 360°

Q44: If one side of the square is 18cm in the following figure then what is the total area of the figure? ( $\pi = 3$ )



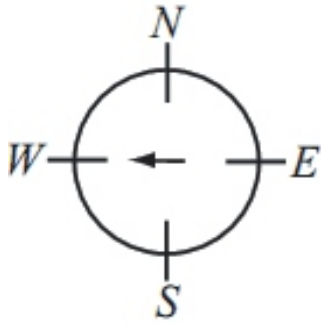
- A) 243cm<sup>2</sup>                              B) 324cm<sup>2</sup>  
 C) 567cm<sup>2</sup>                             D) 1134cm<sup>2</sup>

Q45: If  $AB \parallel CD, BF \parallel CE$  and  $\angle ABF = 150^\circ$



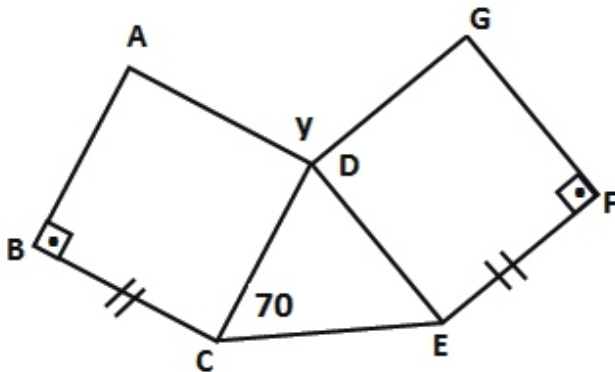
- A) 30°                      B) 40°                      C) 50°                      D) 60°

**Q46:** Initially, a spinner points west. Aqil moves it clockwise  $3\frac{1}{4}$  revolutions and then anti-clockwise  $5\frac{3}{4}$  revolutions. In what direction does the spinner point after the two moves?



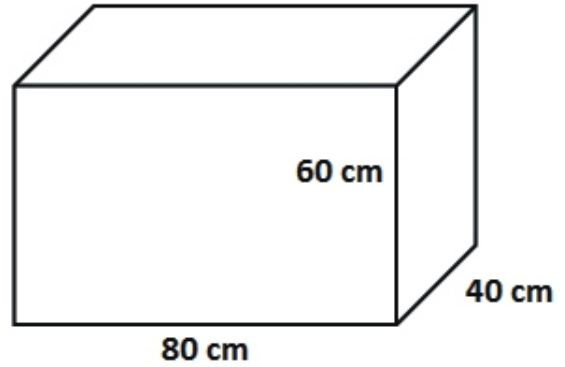
- A) North
- B) East
- C) South
- D) Northwest

**Q47:** In the following figure, if ABCD and DEFG are identical squares and angle ECD is  $70^\circ$  then what is the value of angle  $\gamma$  (angle ADG)?



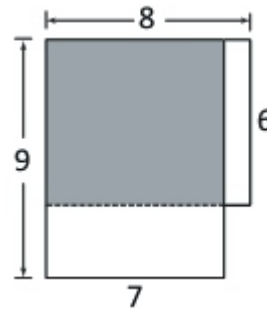
- A)  $70^\circ$
- B)  $140^\circ$
- C)  $210^\circ$
- D)  $280^\circ$

**Q48:** How many small cuboids with the sides 10cm, 15cm and 20cm can be placed into the following cuboid with the sides 40cm, 60cm and 80cm?



- A) 240
- B) 128
- C) 64
- D) 32

**Q49:** A 6m by 8m rectangle overlaps a 7m by 9m rectangle so that they share two sides and a vertex as shown. In square meters, what is the total area of the rectangles not shaded?



- A)  $111\text{m}^2$
- B)  $69\text{m}^2$
- C)  $42\text{m}^2$
- D)  $27\text{m}^2$

**Q50:** Yaseen bought paper sheets for Rs.6800 and spent Rs.550 on transport. Then he paid to his worker Rs.650 to make 360 boxes by using paper sheets. And if he sold each box for Rs.25 then what is his percentage profit overall?

- A) 10%
- B) 12.5%
- C) 20%
- D) 25%